



## PacketExpert Report

# All Port BERT

**Conducted By :** GLIndia  
**Customer Name :** XYZ  
**Operator Name :** ABC  
**Software Version :** 24.10.15.0  
**Time Zone :** Pacific Standard Time  
**Start Date :** 10-29-2024 23:35:04  
**End Date :** 10-29-2024 23:35:49  
**Test Duration :** 00:00:44  
**Test :** AllPortBERT

**Comments :**

**BERT Summary**

**Dev1/Port1 Results**

Pass

**BERT Results**

	Duration	Count
Bit Errors	00:00:00	0
Pattern Sync Loss	00:00:00	0
Out Of Sequence	00:00:00	0
Traffic Status	00:00:00	-
Link Status	00:00:00	-

**Error Frame Count**

Bad	0
FCS Error	0
IP Checksum Error	0
UDP Checksum Error	0

**Bit Error Rate**

0.00
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**Average Rate**

	Tx	Rx
Link Utilization(%)	97.561	97.54
Rate (Gbps)	96.215	96.274
Frames/Sec	7 922 864	7 927 661
Bits/Sec	-	91 705 133 277

**Frames Count**

	Tx	Rx
Total	335 766 575	335 773 223
Test	335 766 575	335 773 223
Non Test	-	0
Total Bytes	509 693 660 850	509 703 752 514
Pattern Bytes	492 905 332 100	492 915 091 364

**Time**

	Tx	Rx
Start Time	10/29/24 23:35:05	10/29/24 23:35:05
Stop Time	10/29/24 23:35:47	10/29/24 23:35:48

**Duration**

Total Duration	00:00:42
Error Duration	00:00:00
Error Free Duration	00:00:42

**Dev1/Port2 Results**

Pass

**BERT Results**

	Duration	Count
Bit Errors	00:00:00	0
Pattern Sync Loss	00:00:00	0
Out Of Sequence	00:00:00	0
Traffic Status	00:00:00	-
Link Status	00:00:00	-

**Error Frame Count**

Bad	0
FCS Error	0
IP Checksum Error	0
UDP Checksum Error	0

**Bit Error Rate**

0.00
------

**Average Rate**

	Tx	Rx
Link Utilization(%)	97.561	96.08
Rate (Gbps)	96.217	94.827
Frames/Sec	7 922 996	7 808 525
Bits/Sec	-	87 627 614 595

**Frames Count**

	Tx	Rx
Total	335 773 223	335 766 575
Test	335 773 223	335 766 575
Non Test	-	0
Total Bytes	509 703 752 514	509 693 660 850
Pattern Bytes	492 915 091 364	492 905 332 100

**Time**

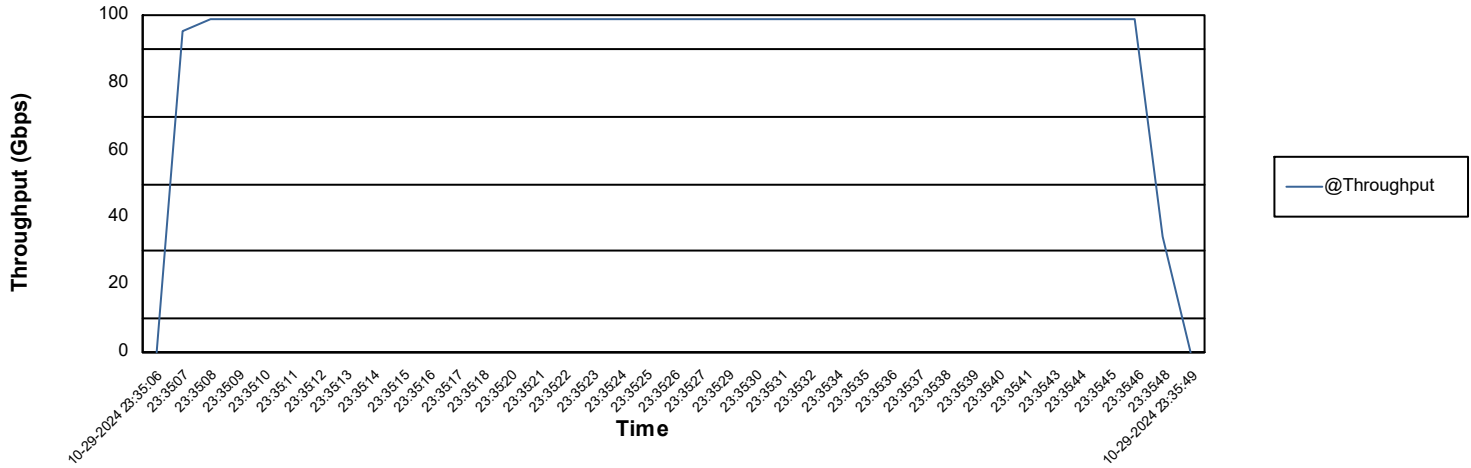
	Tx	Rx
Start Time	10/29/24 23:35:05	10/29/24 23:35:04
Stop Time	10/29/24 23:35:47	10/29/24 23:35:49

**Duration**

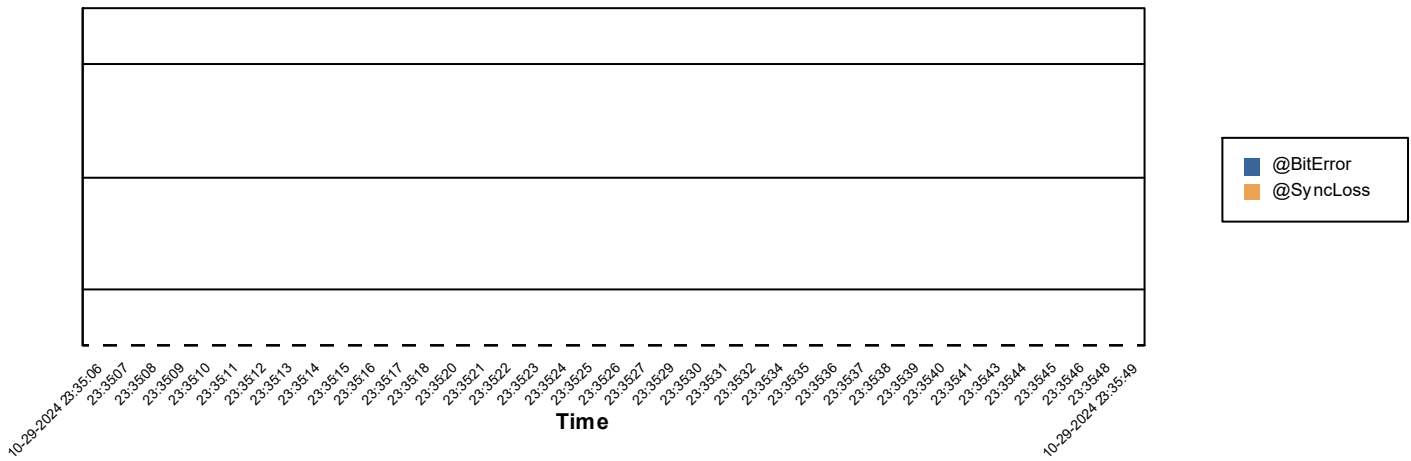
Total Duration	00:00:44
Error Duration	00:00:00
Error Free Duration	00:00:44

Dev1/Port1 Graph

### Throughput Graph

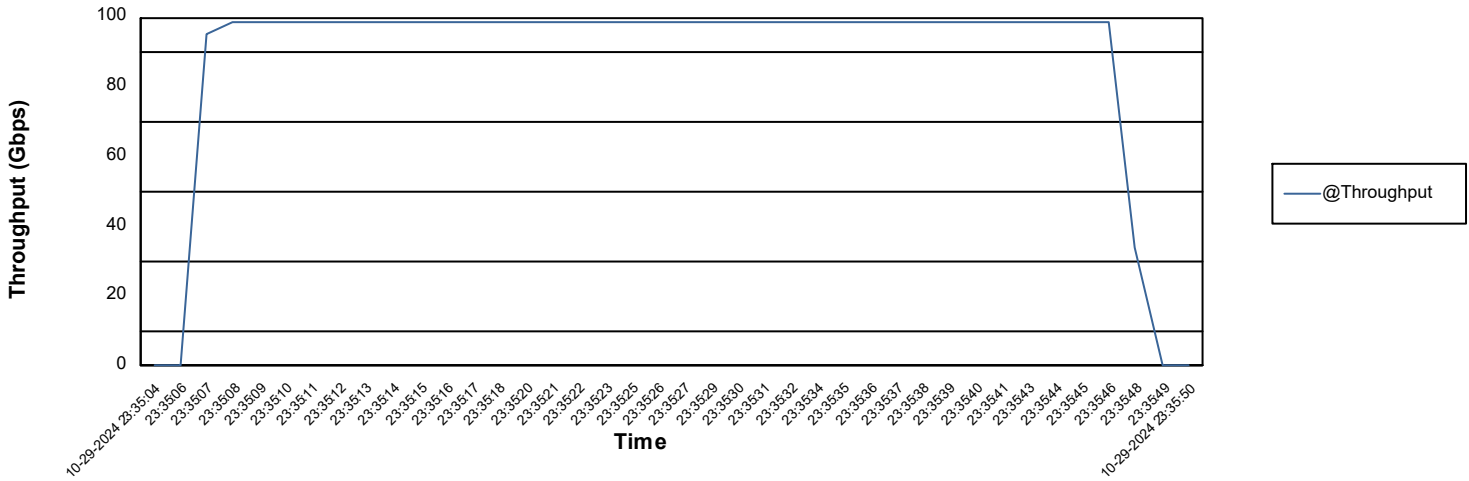


### Bit Errors & Sync Loss Graph

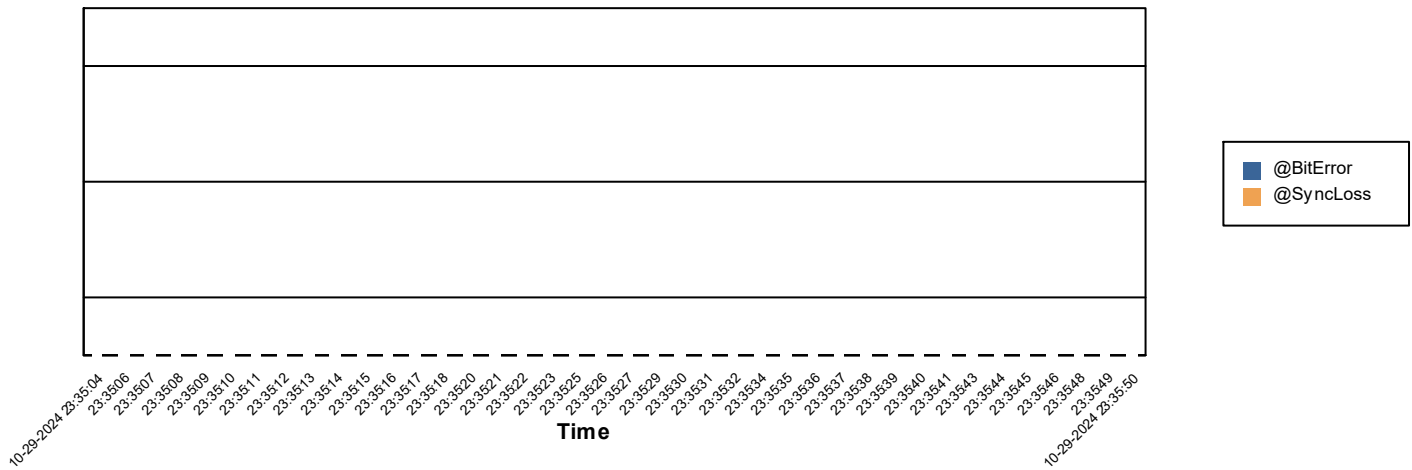


Dev1/Port2 Graph

### Throughput Graph



### Bit Errors & Sync Loss Graph



**Test Statistics**

**Dev1/Port1 Statistics**

Total Test Bits Received	
	3 943 320 730 912

**Frame Type Statistics**

	Tx	Rx
Broadcast Frames	0	0
Multicast Frames	0	0
Control Frames	0	0
VLAN Frames	0	0
Pause Frames	0	0

**Length-wise (Bytes) Statistics**

	Tx	Rx
Undersized Frame	0	0
64 Frames	0	0
65-127 Frames	0	0
128-255 Frames	0	0
256-511 Frames	0	0
512-1023 Frames	0	0
1024-1518 Frames	335 766 575	335 773 223
Oversized Frames	0	0

**Rx Stacked VLAN Statistics**

1 Level	0
2 Level	0
3 Level	0

**Rx Stacked MPLS Statistics**

1 Level	0
2 Level	0
3 Level	0

**Rx IP Statistics**

IPv4 Packets	335 773 223
IPv6 Packets	0
UDP Packets	335 773 223
TCP Packets	0
ICMP Packets	0
IGMP Packets	0
IGRP Packets	0
Other Protocols Packets	0

**Dev1/Port2 Statistics**

Total Test Bits Received	
	3 943 242 656 800

**Frame Type Statistics**

	Tx	Rx
Broadcast Frames	0	0
Multicast Frames	0	0
Control Frames	0	0
VLAN Frames	0	0
Pause Frames	0	0

**Length-wise (Bytes) Statistics**

	Tx	Rx
Undersized Frame	0	0
64 Frames	0	0
65-127 Frames	0	0
128-255 Frames	0	0
256-511 Frames	0	0
512-1023 Frames	0	0
1024-1518 Frames	335 773 223	335 766 575
Oversized Frames	0	0

**Rx Stacked VLAN Statistics**

1 Level	0
2 Level	0
3 Level	0

**Rx Stacked MPLS Statistics**

1 Level	0
2 Level	0
3 Level	0

**Rx IP Statistics**

IPv4 Packets	335 766 575
IPv6 Packets	0
UDP Packets	335 766 575
TCP Packets	0
ICMP Packets	0
IGMP Packets	0
IGRP Packets	0
Other Protocols Packets	0

**Alarms / Errors**

**Dev1/Port1 Ethernet Statistics**

Ethernet Alarms Duration	
Link Down	00:00:00
Local Fault Detected	00:00:00
Local Fault Received	00:00:00
Remote Fault Detected	00:00:00
High SER	-

Ethernet Frame Errors			
	Duration	Count	Rate
FCS Errors	00:00:00	0	0.00
Stomped FCS Errors	00:00:00	0	0.00
Code Violations	00:00:00	0	-
Jabber	00:00:00	0	0.00
Too Long	00:00:00	0	0.00
Runt	00:00:00	0	0.00
Undersized	00:00:00	0	0.00

**Dev1/Port2 Ethernet Statistics**

Ethernet Alarms Duration	
Link Down	00:00:00
Local Fault Detected	00:00:00
Local Fault Received	00:00:00
Remote Fault Detected	00:00:00
High SER	-

Ethernet Frame Errors			
	Duration	Count	Rate
FCS Errors	00:00:00	0	0.00
Stomped FCS Errors	00:00:00	0	0.00
Code Violations	00:00:00	0	-
Jabber	00:00:00	0	0.00
Too Long	00:00:00	0	0.00
Runt	00:00:00	0	0.00
Undersized	00:00:00	0	0.00

**Dev1/Port1 PCS Error Statistics**

PCS Error Duration	
Loss of Alignment	00:00:00
Loss of Block Lock	00:00:00
Loss of Alignment Marker Lock	00:00:00

PCS Errors		
	Duration	Count
Invalid Alignment markers	00:00:00	0
Sync Header Errors	00:00:00	0
PCS BIP Errors	00:00:00	0

**Dev1/Port2 PCS Error Statistics**

PCS Error Duration	
Loss of Alignment	00:00:00
Loss of Block Lock	00:00:00
Loss of Alignment Marker Lock	00:00:00

PCS Errors		
	Duration	Count
Invalid Alignment markers	00:00:00	0
Sync Header Errors	00:00:00	0
PCS BIP Errors	00:00:00	0

**Dev1/Port1 FEC Error Statistics**

**RS-FEC Alarm Duration**

Loss of Alignment	00:00:00
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**RS-FEC Counters**

	Duration	Count
Corrected RS-FEC code words	00:00:00	0
Uncorrected RS-FEC code words	00:00:00	0

**FEC Lane Alarms (Loss Of Alignment)**

Lane No	Duration
1	00:00:00
2	00:00:00
3	00:00:00
4	00:00:00

**RS-FEC Lane errors (RS Symbol Errors)**

Lane No	Duration	Count
1	00:00:00	0
2	00:00:00	0
3	00:00:00	0
4	00:00:00	0

**Dev1/Port2 FEC Error Statistics**

**RS-FEC Alarm Duration**

Loss of Alignment	00:00:00
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**RS-FEC Counters**

	Duration	Count
Corrected RS-FEC code words	00:00:00	0
Uncorrected RS-FEC code words	00:00:00	0

**FEC Lane Alarms (Loss Of Alignment)**

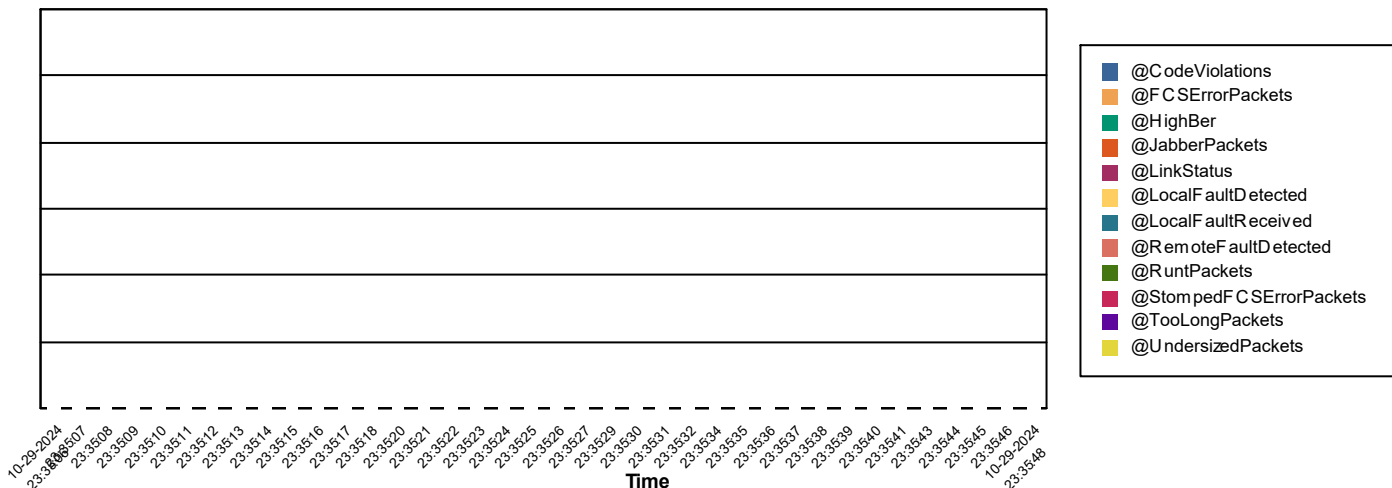
Lane No	Duration
1	00:00:00
2	00:00:00
3	00:00:00
4	00:00:00

**RS-FEC Lane errors (RS Symbol Errors)**

Lane No	Duration	Count
1	00:00:00	0
2	00:00:00	0
3	00:00:00	0
4	00:00:00	0

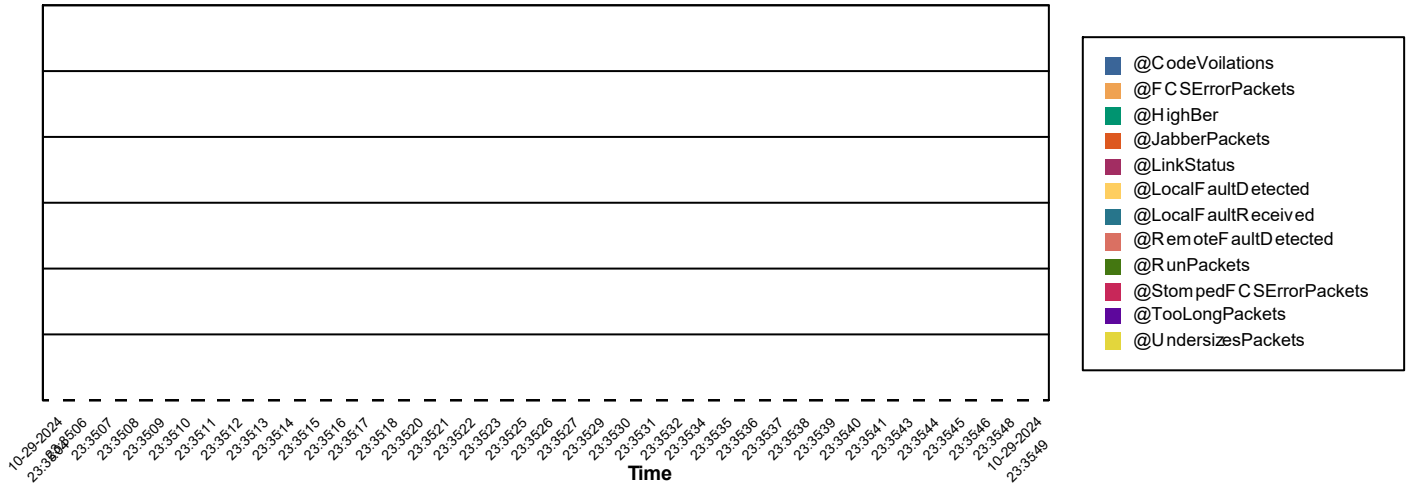
**Dev1/Port1 Graph**

**Ethernet Errors Graph**



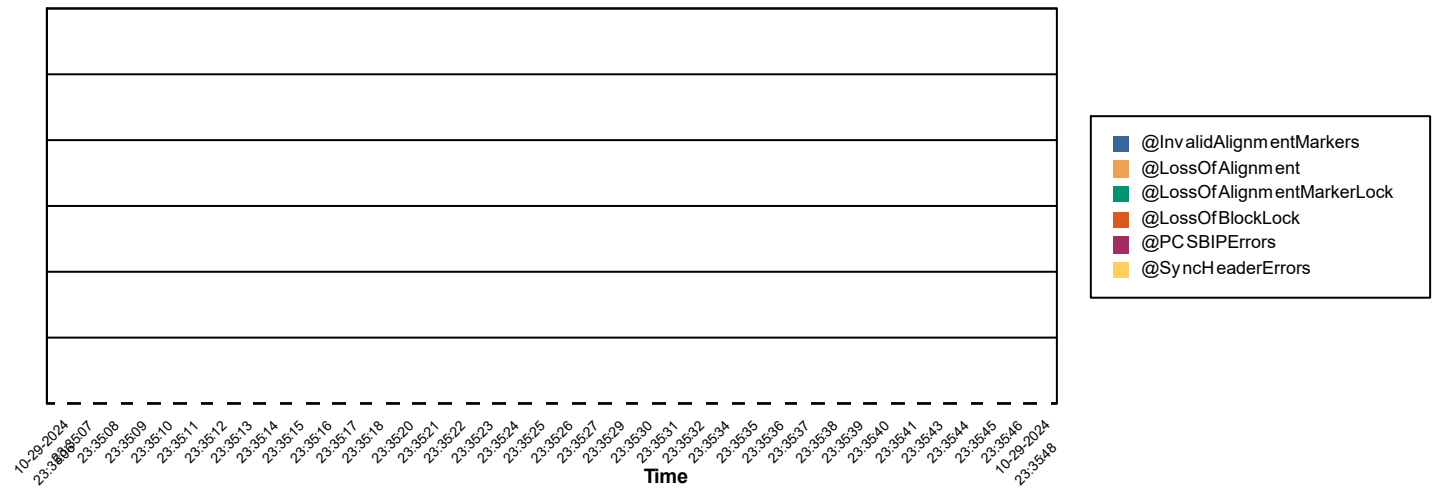
Dev1/Port2 Graph

### Ethernet Errors Graph



Dev1/Port1 Graph

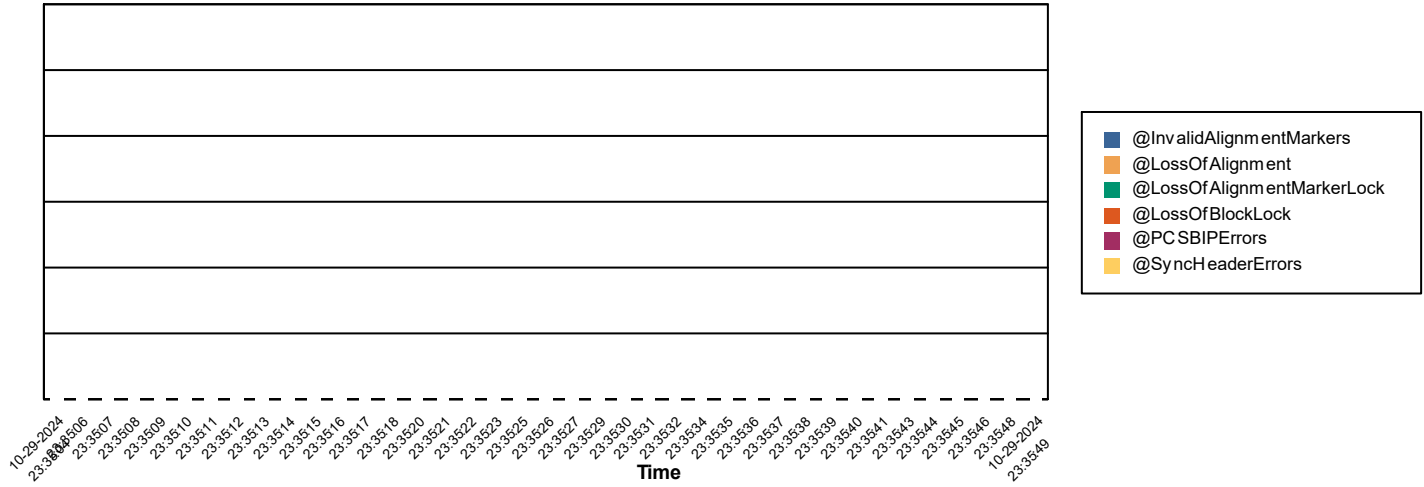
### PCS Lane Errors Graph





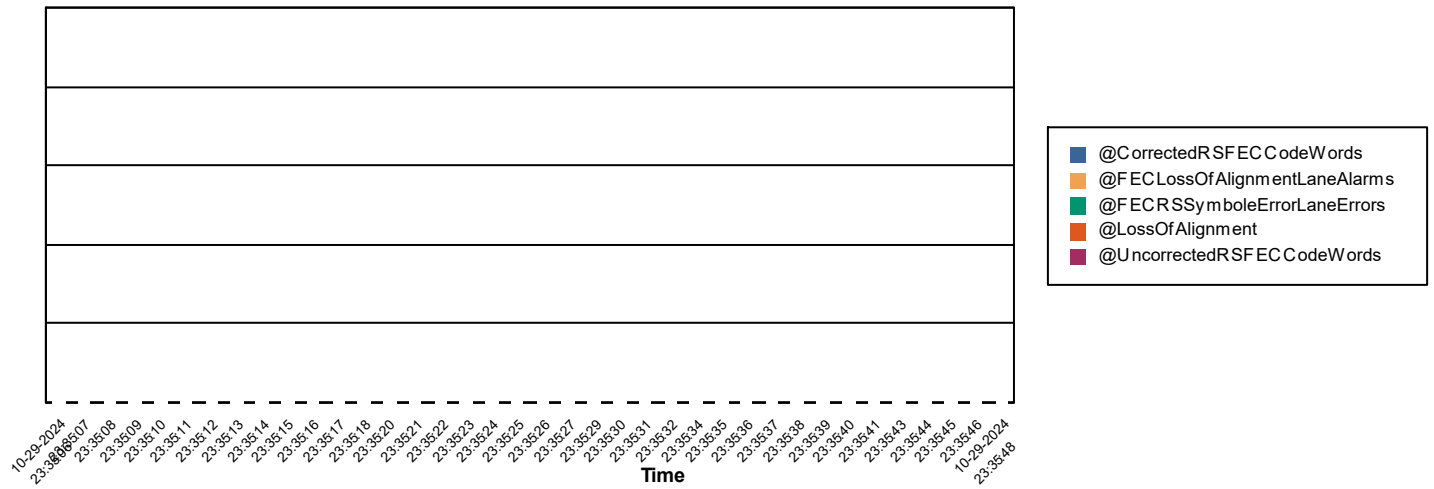
Dev1/Port2 Graph

### PCS Lane Errors Graph



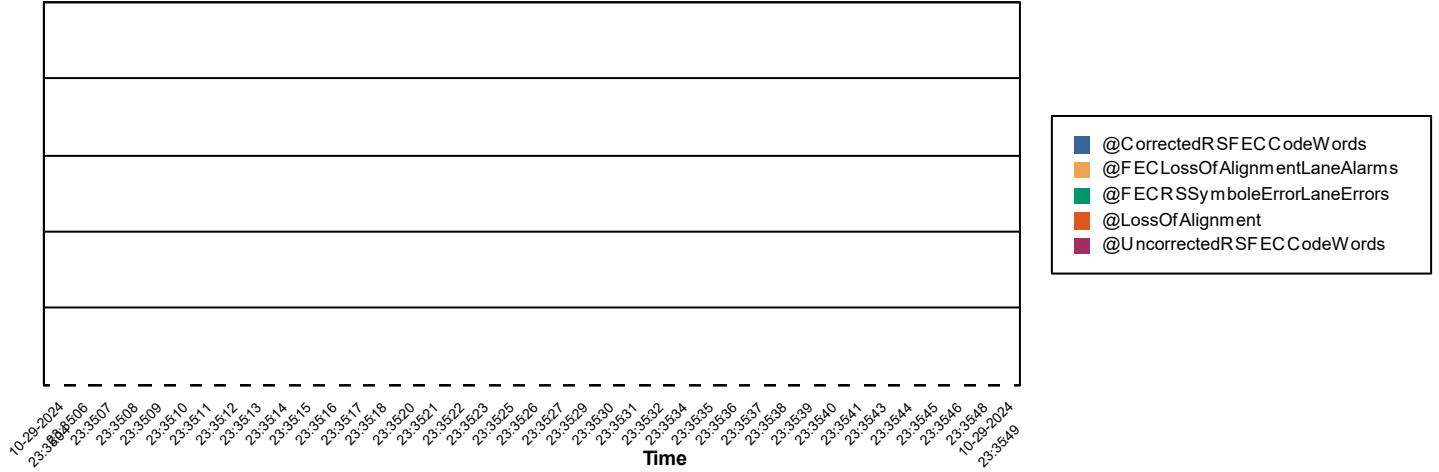
Dev1/Port1 Graph

### RS-FEC Lane Errors Graph



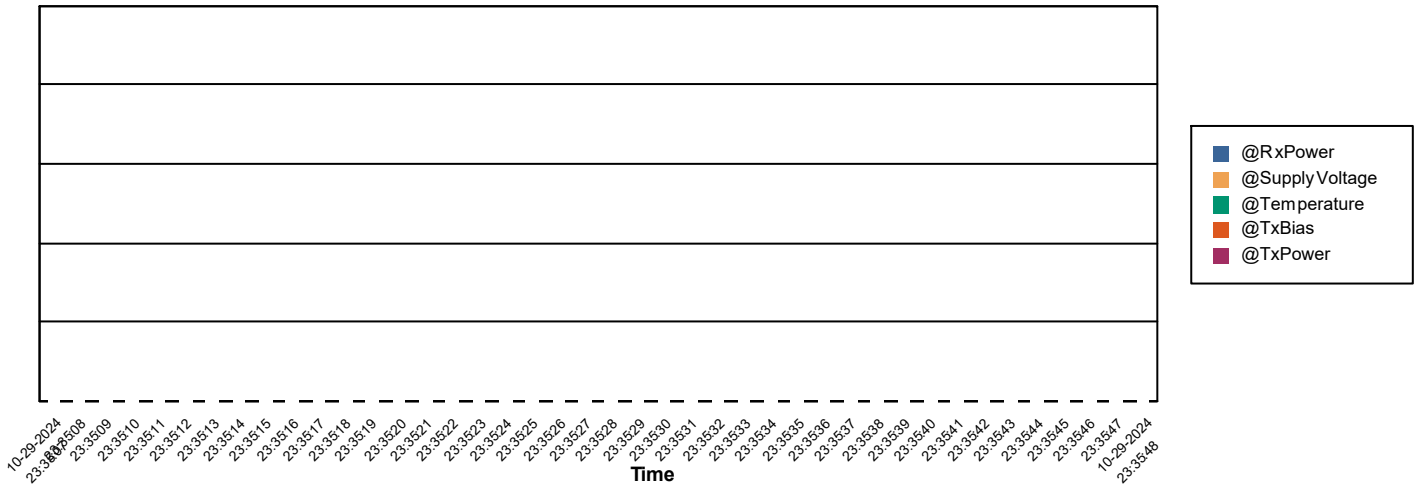
Dev1/Port2 Graph

### RS-FEC Lane Errors Graph



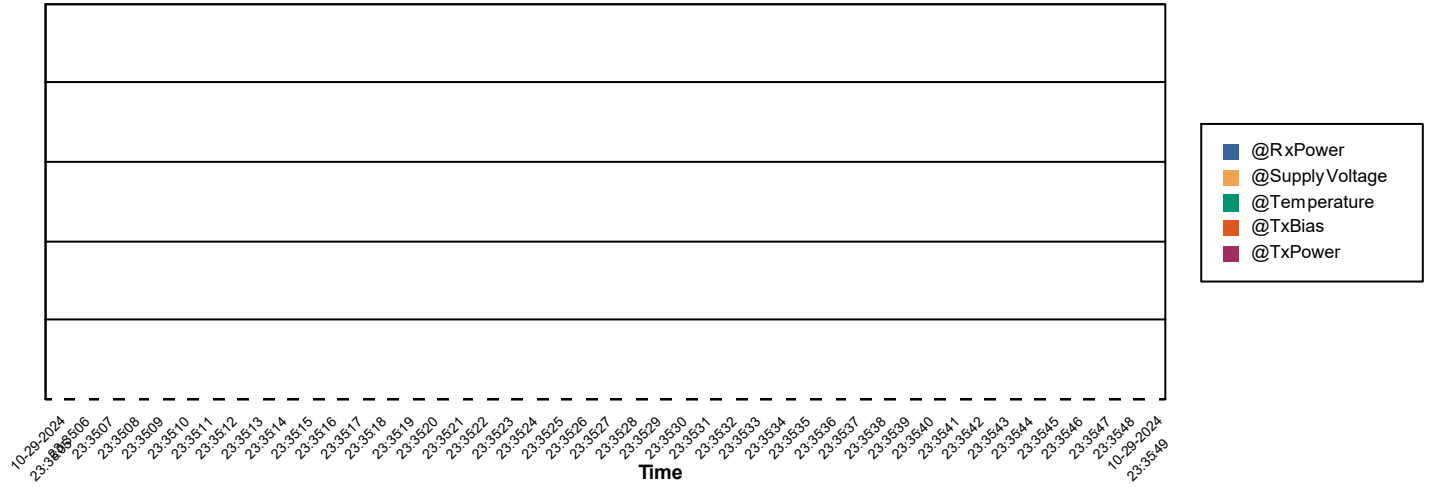
Dev1/Port1 Graph

### SFP Monitor Graph



Dev1/Port2 Graph

### SFP Monitor Graph



**SFP Monitor**

Dev1/Port1 SFP Monitor				
	Alarms	Avg	Min	Max
Temperature(C)	Clear	42.79	41.80	43.73
Supply Voltage(V)	Clear	3.27	3.26	3.28
Rx1 Power(dBm)	Clear	1.36	1.34	1.41
Rx2 Power(dBm)	Clear	1.47	1.45	1.50
Rx3 Power(dBm)	Clear	1.50	1.44	1.56
Rx4 Power(dBm)	Clear	1.47	1.44	1.50
Tx1 Power(dBm)	Clear	-0.01	-0.02	0.01
Tx2 Power(dBm)	Clear	0.16	0.15	0.18
Tx3 Power(dBm)	Clear	0.32	0.31	0.33
Tx4 Power(dBm)	Clear	-0.03	-0.05	-0.02
Tx1 Bias(mA)	Clear	6.40	6.38	6.42
Tx2 Bias(mA)	Clear	6.40	6.38	6.42
Tx3 Bias(mA)	Clear	6.40	6.38	6.42
Tx4 Bias(mA)	Clear	6.40	6.38	6.42

Dev1/Port2 SFP Monitor				
	Alarms	Avg	Min	Max
Temperature(C)	Clear	44.56	43.58	45.23
Supply Voltage(V)	Clear	3.27	3.26	3.28
Rx1 Power(dBm)	Clear	1.13	1.08	1.21
Rx2 Power(dBm)	Clear	1.08	1.07	1.11
Rx3 Power(dBm)	Clear	1.01	0.99	1.02
Rx4 Power(dBm)	Clear	1.04	1.02	1.07
Tx1 Power(dBm)	Clear	-0.01	-0.02	0.01
Tx2 Power(dBm)	Clear	0.16	0.15	0.18
Tx3 Power(dBm)	Clear	0.32	0.31	0.33
Tx4 Power(dBm)	Clear	-0.03	-0.05	-0.02
Tx1 Bias(mA)	Clear	6.40	6.38	6.42
Tx2 Bias(mA)	Clear	6.40	6.38	6.42
Tx3 Bias(mA)	Clear	6.40	6.38	6.42
Tx4 Bias(mA)	Clear	6.40	6.38	6.42

**Devices & Ports Information**

Device1 Information	
Device Name	Device1
Serial Number	0000-279473
Model	860-0001-01-20
Board Name	NT200A02-01
FPGA Version	24.9.17

Dev1/Port1SFP Information	
Identifier	QSFP28 or later with SFF-8636 management interface
Connector Type	MPO 1x12 (Multifiber Parallel Optic)
Ethernet Compliance	100GBASE-SR4 or 25GBASE-SR
Encoding	64B/66B
Nominal Signalling Rate	> 25.4 GBd
Length SMF	-
Length OM3 50um	200m
Length OM2 50um	-
Length OM1 62.5um	-
Length OM4 50um	6m
Device Technology	850 nm VCSEL
Vendor Name	FiberMall
Vendor OUI	1534464
Vendor Part Number	QSFP28-100G-AOC-
Wavelength	850 nm
Vendor Revision	A0
Vendor Serial Number	MC243650005
Vendor Date Code	09/12/24

Dev1/Port2SFP Information	
Identifier	QSFP28 or later with SFF-8636 management interface
Connector Type	MPO 1x12 (Multifiber Parallel Optic)
Ethernet Compliance	100GBASE-SR4 or 25GBASE-SR
Encoding	64B/66B
Nominal Signalling Rate	> 25.4 GBd
Length SMF	-
Length OM3 50um	200m
Length OM2 50um	-
Length OM1 62.5um	-
Length OM4 50um	6m
Device Technology	850 nm VCSEL
Vendor Name	FiberMall
Vendor OUI	1534464
Vendor Part Number	QSFP28-100G-AOC-
Wavelength	850 nm
Vendor Revision	A0
Vendor Serial Number	MC243650005
Vendor Date Code	09/12/24

Dev1/Port1 Interface Details	
Link Speed	100 G
FEC Status	MAC FEC Enabled
MAC Address	00-0D-E9-09-C5-2F
IPv4 Address	192.168.1.11
Subnet Mask	255.255.255.0
Default Gateway	192.168.1.1
IPv6 Address	1111:1111:1111:1111:1111:111:1111:0011

Dev1/Port2 Interface Details	
Link Speed	100 G
FEC Status	MAC FEC Enabled
MAC Address	00-0D-E9-09-C5-21
IPv4 Address	192.168.1.12
Subnet Mask	255.255.255.0
Default Gateway	192.168.1.1
IPv6 Address	2222:2222:2222:2222:2222:2222:2222:0012

**Tx/Rx Configuration**

**Dev1/Port1 Tx Configuration**

Payload					
<b>Pattern</b>	2^9-1, Non-Inverted	<b>Sequence Number</b>	Enabled	<b>Reverse Bits</b>	Disabled

Traffic			Layer						
<b>Rate</b>	100.00 %	<b>Frame size</b>	1518	<b>Layer</b>	UDP	<b>Len/Type</b>	08-00	<b>IPType</b>	IPv4

Address				
	MAC Address	IPv4 Address	IPv6 Address	UDP Port
<b>Source</b>	00-0D-E9-09-C5-2F	192.168.1.11 / 255.255.255.0	-	1001
<b>Destination</b>	00-0D-E9-09-C5-21	192.168.1.12	-	1002

IP Header Configuration	
<b>Default Gateway</b>	192.168.1.1
<b>TTL</b>	128
<b>TOS/DS</b>	0
<b>IP Protocol</b>	17

IP settings	
<b>IP Checksum</b>	Auto
<b>IP ID</b>	Auto

<b>UDP Checksum</b>	Auto
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**Dev1/Port1 Rx Configuration**

<b>Layer</b>	UDP	<b>EtherType</b>	08-00	<b>IPType</b>	IPv4
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Address				
	MAC Address	IPv4 Address	IPv6 Address	UDP Port
<b>Source</b>	00-0D-E9-09-C5-21	192.168.1.12	-	1002
<b>Destination</b>	00-0D-E9-09-C5-2F	192.168.1.11	-	1001

Payload					
<b>Pattern</b>	2^9-1, Non-Inverted	<b>Sequence Number</b>	Enabled	<b>Reverse Bits</b>	Disabled
<b>Process FCS Error Frames</b>	Disabled	<b>Threshold</b>	Bit Error Rate 1.0E-14		

Checksum	
<b>IP Checksum</b>	Auto
<b>UDP Checksum</b>	Auto

**Dev1/Port2 Tx Configuration**

Payload				
Pattern	2^9-1, Non-Inverted	Sequence Number	Enabled	Reverse Bits Disabled

Traffic			Layer						
Rate	100.00 %	Frame size	1518	Layer	UDP	Len/Type	08-00	IType	IPv4

Address				
	MAC Address	IPv4 Address	IPv6 Address	UDP Port
Source	00-0D-E9-09-C5-21	192.168.1.12 / 255.255.255.0	-	1002
Destination	00-0D-E9-09-C5-2F	192.168.1.11	-	1001

IP Header Configuration	
Default Gateway	192.168.1.1
TTL	128
TOS/DS	0
IP Protocol	17

IP settings	
IP Checksum	Auto
IP ID	Auto

UDP Checksum	Auto
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**Dev1/Port2 Rx Configuration**

Layer	UDP	EtherType	08-00	IType	IPv4
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Address				
	MAC Address	IPv4 Address	IPv6 Address	UDP Port
Source	00-0D-E9-09-C5-2F	192.168.1.11	-	1001
Destination	00-0D-E9-09-C5-21	192.168.1.12	-	1002

Payload				
Pattern	2^9-1, Non-Inverted	Sequence Number	Enabled	Reverse Bits Disabled
Process FCS Error Frames	Disabled	Threshold	Bit Error Rate 1.0E-14	

Checksum	
IP Checksum	Auto
UDP Checksum	Auto

**Event Log**

<b>Events</b>				
<b>Port</b>	<b>Name</b>	<b>Start Time</b>	<b>Duration</b>	<b>Details</b>
Dev1/Port2	Start Rx	10-29-2024 23:35:04.960	00:00:01	-
Dev1/Port2	Idle	10-29-2024 23:35:04.998	00:00:02	-
Dev1/Port1	Start Rx	10-29-2024 23:35:05.972	00:00:01	-
Dev1/Port2	Start Tx	10-29-2024 23:35:05.985	00:00:01	-
Dev1/Port1	Start Tx	10-29-2024 23:35:05.986	00:00:01	-
Dev1/Port1	Idle	10-29-2024 23:35:06.017	00:00:01	-
Dev1/Port1	Stop Tx	10-29-2024 23:35:47.298	00:00:01	-
Dev1/Port2	Stop Tx	10-29-2024 23:35:47.298	00:00:01	-
Dev1/Port1	Stop Rx	10-29-2024 23:35:48.321	00:00:01	-
Dev1/Port2	Stop Rx	10-29-2024 23:35:49.336	00:00:01	-